

**INDEPENDENT TESTING LAB**

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

www.gtanalytical.com

Company: MACKINAC ENVIRONMENTAL
Name:
ClientProj: M20-3356
GTA ProjNo: 022621-2

Site Addr: PRINT SHOP

Sampled By: BRAD JEFFERS/MET
Date Rec: 2/26/2021
Time Rec: 12:21 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	SS-01 @ 0-2'	2/25/2021		SOIL
2	SS-01 @ 12-14'	2/25/2021		SOIL
3	SS-02 @ 0-2'	2/25/2021		SOIL
4	SS-02 @ 10-12'	2/25/2021		SOIL
5	SS-03 @ 0-2'	2/25/2021		SOIL
6	SS-03 @ 10-12'	2/25/2021		SOIL
7	SS-04 @ 0-2'	2/25/2021		SOIL
8	SS-05 @ 0-2'	2/25/2021		SOIL

ELECTRONIC SIGNATURE REPORT. This is a final report for the following pages of data for the samples specified above. All analysis was performed by the methods stated and all quality control measures required were completed. All quality control information is available upon request.

Kirk Chase

Kirk L. Chase/Chemist
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COMPANY: MACKINAC ENVIRONMENTAL

GTA PROJECT NO: 022621-2

GTA SAMPLE NO: 2

PROJECT NO: M20-3356

LOCATION: PRINT SHOP

DATE SAMPLED: 2/25/2021

TIME SAMPLED:

DATE RECEIVED: 2/26/2021

TIME RECEIVED: 12:21 PM

SAMPLED BY: BRAD JEFFERS/MET

SAMPLE MATRIX: SOIL

**THIS SAMPLE WAS RECEIVED MEOH PRESERVED.

SAMPLE ID: SS-01 @ 12-14'

EPA 8260B VOLATILE ORGANICS

Units= ug/Kg (PPB)

Analyst= MR

Date Extracted= 2/25/2021

Date Completed= 3/3/2021

Prep Method= EPA 5035A

Analyte	Concentration	LOD	Analyte	Concentration	LOD
ACETONE	ND	1,000	cis-1,3-DICHLOROPROPENE	ND	50
ALLYL CHLORIDE	ND	250	trans-1,3-DICHLOROPROPENE	ND	50
BENZENE	ND	50	DIETHYL ETHER	ND	200
BROMOBENZENE	ND	100	ETHYLBENZENE	ND	50
BROMOCHLOROMETHANE	ND	100	ETHYL METHACRYLATE	ND	250
BROMODICHLOROMETHANE	ND	50	HEXACHLOROBUTADIENE	ND	50
BROMOFORM	ND	100	HEXACHLOROETHANE	ND	250
BROMOMETHANE	ND	200	2-HEXANONE	ND	2,500
n-BUTYLBENZENE	ND	50	IDOMETHANE	ND	250
s-BUTYLBENZENE	ND	50	ISOPROPYLBENZENE	ND	50
t-BUTYLBENZENE	ND	50	ISOPROPYLTOLUENE	ND	50
CARBON DISULFIDE	ND	250	METHYL ACRYLATE	ND	250
CARBON TETRACHLORIDE	ND	50	METHYL ETHYL KETONE	ND	750
CHLOROBENZENE	ND	50	METHYL-t-BUTYL ETHER	ND	250
1-CHLOROBUTANE	ND	100	METHYLENE CHLORIDE	ND	100
CHLOROFORM	ND	50	METHYL METHACRYLATE	ND	250
CHLOROETHANE	ND	250	MIBK	ND	2,500
CHLOROMETHANE	ND	250	2-METHYLNAPHTHALENE	ND	250
2-CHLOROTOLUENE	ND	50	NAPHTHALENE	ND	250
4-CHLOROTOLUENE	ND	50	PENTACHLOROETHANE	ND	250
DIBROMOCHLOROMETHANE	ND	100	n-PROPYLBENZENE	ND	50
DIBROMOMETHANE	ND	250	STYRENE	ND	50
1,2-DIBROMOETHANE	ND	20	1,1,1,2-TETRACHLOROETHANE	ND	100
1,2-DICHLOROETHANE	ND	50	1,1,2,2-TETRACHLOROETHANE	ND	50
1,3-DICHLOROETHANE	ND	50	TETRACHLOROETHENE	ND	50
1,4-DICHLOROETHANE	ND	50	TOLUENE	ND	50
t-1,4-DICHLORO-2-BUTENE	ND	50	1,2,3-TRICHLOROETHANE	ND	50
DICHLORODIFLUOROMETHANE	ND	250	1,2,4-TRICHLOROETHANE	ND	250
1,1-DICHLOROETHANE	ND	50	1,1,1-TRICHLOROETHANE	ND	50
1,2-DICHLOROETHANE	ND	50	1,1,2-TRICHLOROETHANE	ND	50
1,1-DICHLOROETHENE	ND	50	TRICHLOROETHENE	ND	50
cis-1,2-DICHLOROETHENE	ND	50	TRICHLORFLUOROMETHANE	ND	100
trans-1,2-DICHLOROETHENE	ND	50	1,2,3-TRICHLOROPROPANE	ND	100
1,2-DICHLOROPROPANE	ND	50	1,2,4-TRIMETHYLBENZENE	ND	50
1,3-DICHLOROPROPANE	ND	50	1,3,5-TRIMETHYLBENZENE	ND	50
2,2-DICHLOROPROPANE	ND	50	VINYL CHLORIDE	ND	40
1,1-DICHLOROPROPENE	ND	50	XYLENE (TOTAL)	ND	150

ND = NOT DETECTED, RESULT IS <LOD.

LOD = LIMIT OF DETECTION.



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COMPANY: MACKINAC ENVIRONMENTAL

GTA PROJECT NO: 022621-2

PROJECT NO: M20-3356
LOCATION: PRINT SHOP

GTA SAMPLE NO: 4

DATE SAMPLED: 2/25/2021
TIME SAMPLED:

SAMPLED BY: BRAD JEFFERS/MET

DATE RECEIVED: 2/26/2021
TIME RECEIVED: 12:21 PM

SAMPLE MATRIX: SOIL

**THIS SAMPLE WAS RECEIVED MEOH PRESERVED.

SAMPLE ID: SS-02 @ 10-12'

EPA 8260B VOLATILE ORGANICS

Units= ug/Kg (PPB) Analyst= MR Date Extracted= 2/25/2021 Date Completed= 3/3/2021 Prep Method= EPA 5035A

Analyte	Concentration	LOD	Analyte	Concentration	LOD
ACETONE	ND	1,000	cis-1,3-DICHLOROPROPENE	ND	50
ALLYL CHLORIDE	ND	250	trans-1,3-DICHLOROPROPENE	ND	50
BENZENE	ND	50	DIETHYL ETHER	ND	200
BROMOBENZENE	ND	100	ETHYLBENZENE	ND	50
BROMOCHLOROMETHANE	ND	100	ETHYL METHACRYLATE	ND	250
BROMODICHLOROMETHANE	ND	50	HEXACHLOROBUTADIENE	ND	50
BROMOFORM	ND	100	HEXACHLOROETHANE	ND	250
BROMOMETHANE	ND	200	2-HEXANONE	ND	2,500
n-BUTYLBENZENE	ND	50	IDOMETHANE	ND	250
s-BUTYLBENZENE	ND	50	ISOPROPYLBENZENE	ND	50
t-BUTYLBENZENE	ND	50	ISOPROPYLTOLUENE	ND	50
CARBON DISULFIDE	ND	250	METHYL ACRYLATE	ND	250
CARBON TETRACHLORIDE	ND	50	METHYL ETHYL KETONE	ND	750
CHLOROBENZENE	ND	50	METHYL-t-BUTYL ETHER	ND	250
1-CHLOROBUTANE	ND	100	METHYLENE CHLORIDE	ND	100
CHLOROFORM	ND	50	METHYL METHACRYLATE	ND	250
CHLOROETHANE	ND	250	MIBK	ND	2,500
CHLOROMETHANE	ND	250	2-METHYLNAPHTHALENE	ND	250
2-CHLOROTOLUENE	ND	50	NAPHTHALENE	ND	250
4-CHLOROTOLUENE	ND	50	PENTACHLOROETHANE	ND	250
DIBROMOCHLOROMETHANE	ND	100	n-PROPYLBENZENE	ND	50
DIBROMOMETHANE	ND	250	STYRENE	ND	50
1,2-DIBROMOETHANE	ND	20	1,1,1,2-TETRACHLOROETHANE	ND	100
1,2-DICHLOROBENZENE	ND	50	1,1,2,2-TETRACHLOROETHANE	ND	50
1,3-DICHLOROBENZENE	ND	50	TETRACHLOROETHENE	ND	50
1,4-DICHLOROBENZENE	ND	50	TOLUENE	ND	50
t-1,4-DICHLORO-2-BUTENE	ND	50	1,2,3-TRICHLOROBENZENE	ND	50
DICHLORODIFLUOROMETHANE	ND	250	1,2,4-TRICHLOROBENZENE	ND	250
1,1-DICHLOROETHANE	ND	50	1,1,1-TRICHLOROETHANE	ND	50
1,2-DICHLOROETHANE	ND	50	1,1,2-TRICHLOROETHANE	ND	50
1,1-DICHLOROETHENE	ND	50	TRICHLOROETHENE	ND	50
cis-1,2-DICHLOROETHENE	ND	50	TRICHLORFLUOROMETHANE	ND	100
trans-1,2-DICHLOROETHENE	ND	50	1,2,3-TRICHLOROPROPANE	ND	100
1,2-DICHLOROPROPANE	ND	50	1,2,4-TRIMETHYLBENZENE	ND	50
1,3-DICHLOROPROPANE	ND	50	1,3,5-TRIMETHYLBENZENE	ND	50
2,2-DICHLOROPROPANE	ND	50	VINYL CHLORIDE	ND	40
1,1-DICHLOROPROPENE	ND	50	XYLENE (TOTAL)	ND	150

ND = NOT DETECTED, RESULT IS <LOD.

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COMPANY: MACKINAC ENVIRONMENTAL

GTA PROJECT NO: 022621-2

PROJECT NO: M20-3356
LOCATION: PRINT SHOP

GTA SAMPLE NO: 6

DATE SAMPLED: 2/25/2021
TIME SAMPLED:

SAMPLED BY: BRAD JEFFERS/MET

DATE RECEIVED: 2/26/2021
TIME RECEIVED: 12:21 PM

SAMPLE MATRIX: SOIL

**THIS SAMPLE WAS RECEIVED MEOH PRESERVED.

SAMPLE ID: SS-03 @ 10-12'

EPA 8260B VOLATILE ORGANICS

Units= ug/Kg (PPB) Analyst= MR Date Extracted= 2/25/2021 Date Completed= 3/4/2021 Prep Method= EPA 5035A

Analyte	Concentration	LOD	Analyte	Concentration	LOD
ACETONE	ND	1,000	cis-1,3-DICHLOROPROPENE	ND	50
ALLYL CHLORIDE	ND	250	trans-1,3-DICHLOROPROPENE	ND	50
BENZENE	ND	50	DIETHYL ETHER	ND	200
BROMOBENZENE	ND	100	ETHYLBENZENE	ND	50
BROMOCHLOROMETHANE	ND	100	ETHYL METHACRYLATE	ND	250
BROMODICHLOROMETHANE	ND	50	HEXACHLOROBUTADIENE	ND	50
BROMOFORM	ND	100	HEXACHLOROETHANE	ND	250
BROMOMETHANE	ND	200	2-HEXANONE	ND	2,500
n-BUTYLBENZENE	ND	50	IDOMETHANE	ND	250
s-BUTYLBENZENE	ND	50	ISOPROPYLBENZENE	ND	50
t-BUTYLBENZENE	ND	50	ISOPROPYLTOLUENE	ND	50
CARBON DISULFIDE	ND	250	METHYL ACRYLATE	ND	250
CARBON TETRACHLORIDE	ND	50	METHYL ETHYL KETONE	ND	750
CHLOROBENZENE	ND	50	METHYL-t-BUTYL ETHER	ND	250
1-CHLOROBUTANE	ND	100	METHYLENE CHLORIDE	ND	100
CHLOROFORM	ND	50	METHYL METHACRYLATE	ND	250
CHLOROETHANE	ND	250	MIBK	ND	2,500
CHLOROMETHANE	ND	250	2-METHYLNAPHTHALENE	ND	250
2-CHLOROTOLUENE	ND	50	NAPHTHALENE	ND	250
4-CHLOROTOLUENE	ND	50	PENTACHLOROETHANE	ND	250
DIBROMOCHLOROMETHANE	ND	100	n-PROPYLBENZENE	ND	50
DIBROMOMETHANE	ND	250	STYRENE	ND	50
1,2-DIBROMOETHANE	ND	20	1,1,1,2-TETRACHLOROETHANE	ND	100
1,2-DICHLOROBENZENE	ND	50	1,1,2,2-TETRACHLOROETHANE	ND	50
1,3-DICHLOROBENZENE	ND	50	TETRACHLOROETHENE	ND	50
1,4-DICHLOROBENZENE	ND	50	TOLUENE	ND	50
t-1,4-DICHLORO-2-BUTENE	ND	50	1,2,3-TRICHLOROBENZENE	ND	50
DICHLORODIFLUOROMETHANE	ND	250	1,2,4-TRICHLOROBENZENE	ND	250
1,1-DICHLOROETHANE	ND	50	1,1,1-TRICHLOROETHANE	ND	50
1,2-DICHLOROETHANE	ND	50	1,1,2-TRICHLOROETHANE	ND	50
1,1-DICHLOROETHENE	ND	50	TRICHLOROETHENE	ND	50
cis-1,2-DICHLOROETHENE	ND	50	TRICHLORFLUOROMETHANE	ND	100
trans-1,2-DICHLOROETHENE	ND	50	1,2,3-TRICHLOROPROPANE	ND	100
1,2-DICHLOROPROPANE	ND	50	1,2,4-TRIMETHYLBENZENE	ND	50
1,3-DICHLOROPROPANE	ND	50	1,3,5-TRIMETHYLBENZENE	ND	50
2,2-DICHLOROPROPANE	ND	50	VINYL CHLORIDE	ND	40
1,1-DICHLOROPROPENE	ND	50	XYLENE (TOTAL)	ND	150

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LOD = LIMIT OF DETECTION.

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COMPANY: MACKINAC ENVIRONMENTAL

PROJECT NO: M20-3356
LOCATION: PRINT SHOPSAMPLED BY: MI
BRAD JEFFERS/METSAMPLE MATRIX: SOIL
SAMPLE ID: SS-01 @ 0-2'GTA PROJECT NO: 022621-2
GTA SAMPLE NO: 1DATE SAMPLED: 2/25/2021
TIME SAMPLED:DATE RECEIVED: 2/26/2021
TIME RECEIVED: 12:21 PM**PNA EPA 8270D (SIM)**

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Complete</u>	<u>Prep Method</u>
Acenaphthene	820	330	ug/Kg (PPB)	KC/TR	3/2/2021	3/2/2021	EPA 3550B
Acenaphthylene	ND	330					
Anthracene	2,200	330					
Benzo(a)anthracene	6,600	330					
Benzo(b)fluoranthene	18,000	330					
Benzo(k)fluoranthene	7,200	330					
Benzo(a)pyrene	15,000	330					
Benzo(ghi)perylene	7,300	330					
2-Chloronaphthalene	ND	330					
Chrysene	6,800	330					
Dibenz(ah)anthracene	2,200	330					
Fluoranthene	12,000	330					
Fluorene	700	330					
Indeno(123-cd)pyrene	8,500	330					
2-Methylnaphthalene	ND	330					
Naphthalene	ND	330					
Phenanthrene	7,600	330					
Pyrene	8,900	330					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.

ND = NOT DETECTED

LOD = LIMIT OF DETECTION

COMPANY: MACKINAC ENVIRONMENTAL

GTA PROJECT NO: 022621-2

PROJECT NO: M20-3356

GTA SAMPLE NO: 3

LOCATION: PRINT SHOP

DATE SAMPLED: 2/25/2021

TIME SAMPLED:

SAMPLED BY: MI

DATE RECEIVED: 2/26/2021

BRAD JEFFERS/MET

TIME RECEIVED: 12:21 PM

SAMPLE MATRIX: SOIL

SAMPLE ID: SS-02 @ 0-2'

PNA EPA 8270D (SIM)

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Complete</u>	<u>Prep Method</u>
Acenaphthene	ND	330	ug/Kg (PPB)	KC/TR	3/2/2021	3/2/2021	EPA 3550B
Acenaphthylene	ND	330					
Anthracene	ND	330					
Benzo(a)anthracene	ND	330					
Benzo(b)fluoranthene	1,100	330					
Benzo(k)fluoranthene	370	330					
Benzo(a)pyrene	700	330					
Benzo(ghi)perylene	580	330					
2-Chloronaphthalene	ND	330					
Chrysene	400	330					
Dibenz(ah)anthracene	ND	330					
Fluoranthene	500	330					
Fluorene	ND	330					
Indeno(123-cd)pyrene	370	330					
2-Methylnaphthalene	ND	330					
Naphthalene	ND	330					
Phenanthrene	ND	330					
Pyrene	530	330					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.

ND = NOT DETECTED

LOD = LIMIT OF DETECTION

COMPANY: MACKINAC ENVIRONMENTAL

GTA PROJECT NO: 022621-2

PROJECT NO: M20-3356

GTA SAMPLE NO: 5

LOCATION: PRINT SHOP

DATE SAMPLED: 2/25/2021

TIME SAMPLED:

SAMPLED BY: MI

DATE RECEIVED: 2/26/2021

BRAD JEFFERS/MET

TIME RECEIVED: 12:21 PM

SAMPLE MATRIX: SOIL

SAMPLE ID: SS-03 @ 0-2'

PNA EPA 8270D (SIM)

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Complete</u>	<u>Prep Method</u>
Acenaphthene	440	330	ug/Kg (PPB)	KC/TR	3/2/2021	3/2/2021	EPA 3550B
Acenaphthylene	ND	330					
Anthracene	1,200	330					
Benzo(a)anthracene	2,800	330					
Benzo(b)fluoranthene	9,000	330					
Benzo(k)fluoranthene	3,300	330					
Benzo(a)pyrene	6,100	330					
Benzo(ghi)perylene	2,800	330					
2-Chloronaphthalene	ND	330					
Chrysene	3,200	330					
Dibenz(ah)anthracene	680	330					
Fluoranthene	6,200	330					
Fluorene	410	330					
Indeno(123-cd)pyrene	3,000	330					
2-Methylnaphthalene	ND	330					
Naphthalene	ND	330					
Phenanthrene	4,300	330					
Pyrene	4,700	330					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.

ND = NOT DETECTED

LOD = LIMIT OF DETECTION

COMPANY: MACKINAC ENVIRONMENTAL

GTA PROJECT NO: 022621-2

PROJECT NO: M20-3356

GTA SAMPLE NO: 7

LOCATION: PRINT SHOP

DATE SAMPLED: 2/25/2021

TIME SAMPLED:

SAMPLED BY: MI

DATE RECEIVED: 2/26/2021

BRAD JEFFERS/MET

TIME RECEIVED: 12:21 PM

SAMPLE MATRIX: SOIL

SAMPLE ID: SS-04 @ 0-2'

PNA EPA 8270D (SIM)

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Complete</u>	<u>Prep Method</u>
Acenaphthene	ND	330	ug/Kg (PPB)	KC/TR	3/2/2021	3/2/2021	EPA 3550B
Acenaphthylene	420	330					
Anthracene	890	330					
Benzo(a)anthracene	2,500	330					
Benzo(b)fluoranthene	11,000	330					
Benzo(k)fluoranthene	3,900	330					
Benzo(a)pyrene	6,600	330					
Benzo(ghi)perylene	3,400	330					
2-Chloronaphthalene	ND	330					
Chrysene	3,200	330					
Dibenz(ah)anthracene	920	330					
Fluoranthene	4,600	330					
Fluorene	ND	330					
Indeno(123-cd)pyrene	3,800	330					
2-Methylnaphthalene	ND	330					
Naphthalene	ND	330					
Phenanthrene	2,800	330					
Pyrene	3,700	330					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.

ND = NOT DETECTED

LOD = LIMIT OF DETECTION

COMPANY: MACKINAC ENVIRONMENTAL

GTA PROJECT NO: 022621-2

PROJECT NO: M20-3356
LOCATION: PRINT SHOP

GTA SAMPLE NO: 8

DATE SAMPLED: 2/25/2021

TIME SAMPLED:

SAMPLED BY: MI
BRAD JEFFERS/MET

DATE RECEIVED: 2/26/2021

TIME RECEIVED: 12:21 PM

SAMPLE MATRIX: SOIL
SAMPLE ID: SS-05 @ 0-2'

PNA EPA 8270D (SIM)

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Complete</u>	<u>Prep Method</u>
Acenaphthene	ND	330	ug/Kg (PPB)	KC/TR	3/2/2021	3/2/2021	EPA 3550B
Acenaphthylene	ND	330					
Anthracene	730	330					
Benzo(a)anthracene	1,500	330					
Benzo(b)fluoranthene	4,500	330					
Benzo(k)fluoranthene	1,700	330					
Benzo(a)pyrene	3,000	330					
Benzo(ghi)perylene	1,300	330					
2-Chloronaphthalene	ND	330					
Chrysene	1,600	330					
Dibenz(ah)anthracene	ND	330					
Fluoranthene	3,200	330					
Fluorene	ND	330					
Indeno(123-cd)pyrene	1,400	330					
2-Methylnaphthalene	ND	330					
Naphthalene	ND	330					
Phenanthrene	2,900	330					
Pyrene	2,800	330					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.

ND = NOT DETECTED

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COMPANY: MACKINAC ENVIRONMENTAL

GTA PROJECT NO: 022621-2

PROJECT NO: M20-3356
LOCATION: PRINT SHOP

GTA SAMPLE NO: 1

DATE SAMPLED: 2/25/2021
TIME SAMPLED:MI
SAMPLED BY: BRAD JEFFERS/METDATE RECEIVED: 2/26/2021
TIME RECEIVED: 12:21 PM

SAMPLE MATRIX: SOIL

SAMPLE ID: SS-01 @ 0-2'

METALS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Digestion Method</u>
ARSENIC TOTAL EPA 6020A	1.4	0.34	mg/Kg (PPM)	MR	3/4/2021	EPA 3050B
BARIUM TOTAL EPA 6020A	34	0.34	mg/Kg (PPM)	MR	3/4/2021	EPA 3050B
CADMIUM TOTAL EPA 6020A	ND	0.34	mg/Kg (PPM)	MR	3/4/2021	EPA 3050B
CHROMIUM TOTAL EPA 6020A	5.4	0.34	mg/Kg (PPM)	MR	3/4/2021	EPA 3050B
COPPER TOTAL EPA 6020A	44	0.34	mg/Kg (PPM)	MR	3/4/2021	EPA 3050B
LEAD TOTAL EPA 6020A	150	0.34	mg/Kg (PPM)	MR	3/4/2021	EPA 3050B
MERCURY TOTAL EPA 7471B	0.17	0.016	mg/Kg (PPM)	MR	3/3/2021	EPA 7471
SELENIUM TOTAL EPA 6020A	ND	0.34	mg/Kg (PPM)	MR	3/4/2021	EPA 3050B
SILVER TOTAL EPA 6020A	ND	0.34	mg/Kg (PPM)	MR	3/4/2021	EPA 3050B
ZINC TOTAL EPA 6020A	100	3.4	mg/Kg (PPM)	MR	3/4/2021	EPA 3050B

ND = NOT DETECTED, RESULT < LOD
LOD = LIMIT OF DETECTION

DISS = DISSOLVED

**INDEPENDENT TESTING LAB**

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

www.gtanalytical.com

COMPANY: MACKINAC ENVIRONMENTAL
PROJECT NO: M20-3356
LOCATION: PRINT SHOP
MI
SAMPLED BY: BRAD JEFFERS/MET
SAMPLE ID: SS-02 @ 0-2'

GTA PROJECT NO: 022621-2
GTA SAMPLE NO: 3
DATE SAMPLED: 2/25/2021
TIME SAMPLED:
DATE RECEIVED: 2/26/2021
TIME RECEIVED: 12:21 PM
SAMPLE MATRIX: SOIL

METALS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Digestion Method</u>
ARSENIC TOTAL EPA 6020A	0.56	0.33	mg/Kg (PPM)	MR	3/4/2021	EPA 3050B
BARIUM TOTAL EPA 6020A	14	0.33	mg/Kg (PPM)	MR	3/4/2021	EPA 3050B
CADMIUM TOTAL EPA 6020A	ND	0.33	mg/Kg (PPM)	MR	3/4/2021	EPA 3050B
CHROMIUM TOTAL EPA 6020A	4.8	0.33	mg/Kg (PPM)	MR	3/4/2021	EPA 3050B
COPPER TOTAL EPA 6020A	7.8	0.33	mg/Kg (PPM)	MR	3/4/2021	EPA 3050B
LEAD TOTAL EPA 6020A	14	0.33	mg/Kg (PPM)	MR	3/4/2021	EPA 3050B
MERCURY TOTAL EPA 7471B	0.047	0.016	mg/Kg (PPM)	MR	3/3/2021	EPA 7471
SELENIUM TOTAL EPA 6020A	ND	0.33	mg/Kg (PPM)	MR	3/4/2021	EPA 3050B
SILVER TOTAL EPA 6020A	ND	0.33	mg/Kg (PPM)	MR	3/4/2021	EPA 3050B
ZINC TOTAL EPA 6020A	28	3.3	mg/Kg (PPM)	MR	3/4/2021	EPA 3050B

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COMPANY: MACKINAC ENVIRONMENTAL
PROJECT NO: M20-3356
LOCATION: PRINT SHOP
MI
SAMPLED BY: BRAD JEFFERS/MET
SAMPLE ID: SS-03 @ 0-2'

GTA PROJECT NO: 022621-2
GTA SAMPLE NO: 5
DATE SAMPLED: 2/25/2021
TIME SAMPLED:
DATE RECEIVED: 2/26/2021
TIME RECEIVED: 12:21 PM
SAMPLE MATRIX: SOIL

METALS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Digestion Method</u>
ARSENIC TOTAL EPA 6020A	2.6	0.36	mg/Kg (PPM)	MR	3/4/2021	EPA 3050B
BARIUM TOTAL EPA 6020A	49	0.36	mg/Kg (PPM)	MR	3/4/2021	EPA 3050B
CADMIUM TOTAL EPA 6020A	0.67	0.36	mg/Kg (PPM)	MR	3/4/2021	EPA 3050B
CHROMIUM TOTAL EPA 6020A	7.3	0.36	mg/Kg (PPM)	MR	3/4/2021	EPA 3050B
COPPER TOTAL EPA 6020A	54	0.36	mg/Kg (PPM)	MR	3/4/2021	EPA 3050B
LEAD TOTAL EPA 6020A	290	0.36	mg/Kg (PPM)	MR	3/4/2021	EPA 3050B
MERCURY TOTAL EPA 7471B	0.39	0.018	mg/Kg (PPM)	MR	3/3/2021	EPA 7471
SELENIUM TOTAL EPA 6020A	ND	0.36	mg/Kg (PPM)	MR	3/4/2021	EPA 3050B
SILVER TOTAL EPA 6020A	ND	0.36	mg/Kg (PPM)	MR	3/4/2021	EPA 3050B
ZINC TOTAL EPA 6020A	250	3.6	mg/Kg (PPM)	MR	3/4/2021	EPA 3050B

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COMPANY: MACKINAC ENVIRONMENTAL

GTA PROJECT NO: 022621-2

PROJECT NO: M20-3356
LOCATION: PRINT SHOP

GTA SAMPLE NO: 7

DATE SAMPLED: 2/25/2021
TIME SAMPLED:MI
SAMPLED BY: BRAD JEFFERS/METDATE RECEIVED: 2/26/2021
TIME RECEIVED: 12:21 PM

SAMPLE MATRIX: SOIL

SAMPLE ID: SS-04 @ 0-2'

METALS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Digestion Method</u>
ARSENIC TOTAL EPA 6020A	3.5	0.36	mg/Kg (PPM)	MR	3/4/2021	EPA 3050B
BARIUM TOTAL EPA 6020A	53	0.36	mg/Kg (PPM)	MR	3/4/2021	EPA 3050B
CADMIUM TOTAL EPA 6020A	0.72	0.36	mg/Kg (PPM)	MR	3/4/2021	EPA 3050B
CHROMIUM TOTAL EPA 6020A	15	0.36	mg/Kg (PPM)	MR	3/4/2021	EPA 3050B
COPPER TOTAL EPA 6020A	67	0.36	mg/Kg (PPM)	MR	3/4/2021	EPA 3050B
LEAD TOTAL EPA 6020A	310	0.36	mg/Kg (PPM)	MR	3/4/2021	EPA 3050B
MERCURY TOTAL EPA 7471B	0.32	0.017	mg/Kg (PPM)	MR	3/3/2021	EPA 7471
SELENIUM TOTAL EPA 6020A	ND	0.36	mg/Kg (PPM)	MR	3/4/2021	EPA 3050B
SILVER TOTAL EPA 6020A	ND	0.36	mg/Kg (PPM)	MR	3/4/2021	EPA 3050B
ZINC TOTAL EPA 6020A	290	3.6	mg/Kg (PPM)	MR	3/4/2021	EPA 3050B

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XCOMPANY: MACKINAC ENVIRONMENTAL

GTA PROJECT NO: 022621-2

PROJECT NO: M20-3356
LOCATION: PRINT SHOP

GTA SAMPLE NO: 8

DATE SAMPLED: 2/25/2021
TIME SAMPLED:MI
SAMPLED BY: BRAD JEFFERS/METDATE RECEIVED: 2/26/2021
TIME RECEIVED: 12:21 PM

SAMPLE MATRIX: SOIL

SAMPLE ID: SS-05 @ 0-2'

METALS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Digestion Method</u>
ARSENIC TOTAL EPA 6020A	6.7	0.34	mg/Kg (PPM)	MR	3/4/2021	EPA 3050B
BARIUM TOTAL EPA 6020A	140	0.34	mg/Kg (PPM)	MR	3/4/2021	EPA 3050B
CADMIUM TOTAL EPA 6020A	0.92	0.34	mg/Kg (PPM)	MR	3/4/2021	EPA 3050B
CHROMIUM TOTAL EPA 6020A	12	0.34	mg/Kg (PPM)	MR	3/4/2021	EPA 3050B
COPPER TOTAL EPA 6020A	110	0.34	mg/Kg (PPM)	MR	3/4/2021	EPA 3050B
LEAD TOTAL EPA 6020A	370	0.34	mg/Kg (PPM)	MR	3/4/2021	EPA 3050B
MERCURY TOTAL EPA 7471B	0.49	0.016	mg/Kg (PPM)	MR	3/3/2021	EPA 7471
SELENIUM TOTAL EPA 6020A	ND	0.34	mg/Kg (PPM)	MR	3/4/2021	EPA 3050B
SILVER TOTAL EPA 6020A	ND	0.34	mg/Kg (PPM)	MR	3/4/2021	EPA 3050B
ZINC TOTAL EPA 6020A	400	3.4	mg/Kg (PPM)	MR	3/4/2021	EPA 3050B

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PH: 231-929-0905

FAX: 231-929-0894

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COMPANY: MACKINAC ENVIRONMENTAL

NAME:

PROJECT NO: M20-3356

LOCATION: PRINT SHOP

MI

GTA PROJECT NO: 022621-

SAMPLED BY: BRAD JEFFERS/MET

DATE SAMPLED: 2/25/2021

TIME SAMPLED:

SAMPLE MATRIX: SOIL

DATE RECEIVED: 2/26/2021

TIME RECEIVED: 12:21 PM

MOISTURE

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
SAMPLE ID: SS-01 @ 0-2'	% MOISTURE EPA 3550C	8.9	0.050	% OF SAMPLE	AS	2/26/2021
SAMPLE ID: SS-01 @ 12-14'	% MOISTURE EPA 3550C	7.7	0.050	% OF SAMPLE	AS	2/26/2021
SAMPLE ID: SS-02 @ 0-2'	% MOISTURE EPA 3550C	4.0	0.050	% OF SAMPLE	AS	2/26/2021
SAMPLE ID: SS-02 @ 10-12'	% MOISTURE EPA 3550C	5.2	0.050	% OF SAMPLE	AS	2/26/2021
SAMPLE ID: SS-03 @ 0-2'	% MOISTURE EPA 3550C	16	0.050	% OF SAMPLE	AS	2/26/2021
SAMPLE ID: SS-03 @ 10-12'	% MOISTURE EPA 3550C	4.0	0.050	% OF SAMPLE	AS	2/26/2021
SAMPLE ID: SS-04 @ 0-2'	% MOISTURE EPA 3550C	15	0.050	% OF SAMPLE	AS	2/26/2021
SAMPLE ID: SS-05 @ 0-2'	% MOISTURE EPA 3550C	19	0.050	% OF SAMPLE	AS	2/26/2021

